

Some guidelines for Embedded Systems (Mid Year Training 2018 | IEEE Tanta SB):

The promised content:

*Embedded Systems Content:

- Signals - Analog vs. Digital.
- Intro to Embedded Systems & Microcontrollers.
- I/O.
- PWM and Motors.
- Interrupts.
- LCD/Keypad + Mini project.

Mid-Year Training 8
Merge Your Trends

Engineering Arcade IEEE Tanta Student Branch MIU Made In University

To be retrieved:

- Pull-up resistors and how to activate them on ATmega328/P when input.
- External Interrupts.

For further learning:

- Analog to Digital Converter (ADC).
- Analog Comparator.
- Communication Protocols:
- Serial Communication.
 - USART.
 - SPI.
 - I2C.
- Embedded C: <http://ow.ly/IMpj308Uk62>
- Real Time Operating System (RTOS): <http://ow.ly/QONU308Ukfi>
- Raspberry PI: <http://ow.ly/El00308UkLC> , <http://ow.ly/Ozjc308UkNB>
- Linux: <http://ow.ly/El00308UkLC> , <http://ow.ly/urs6308UkQX>
- Python: <http://ow.ly/FprE308UkUD>

Some Learning Sources:

- Shape the world “Introduction”:
<http://ow.ly/r3PH308UkoN>
<http://ow.ly/Ixl5308UkpA>
- Introduction to Embedded Systems: <http://ow.ly/o1CY308UkAz>
- Basic Electronics (Walid Issa): <http://ow.ly/Ilom308UkDv>
- AVR Mazidi Book.